

Juniper Ridge Landfill

Department Order #S-020700-WD-W-M

Excerpts from the Department's Record

- **Minor Revision Application and Materials
Received During Processing** **Page #**
- **JRL Amendment Order
(#S-020700-WD-N-A)** **Page #**
- **Pine Tree Landfill Minor Revision Order
approving the acceptance of MSW bypass
(#S-001987-WD-QA-M)** **Page #**
- **JRL Waste Volume Summary** **Page #**
- **JRL Waste Tracking Summary** **Page #**

Eastern Regional Office
110 Main Street, Suite 1308
Saco, Maine 04072
(888) 539-9993
(207) 286-1668
(207) 286-1696 Fax

casella
waste systems, inc.

October 3, 2006

Vicky Bryant
Maine Dept. of Environmental Protection
Solid Waste Program
17 State House Station
Augusta, Maine 04333-0017

RE: Juniper Ridge Landfill
Minor Revision Application

Dear Vicky:

Enclosed, please find a Minor Revision Application for MDEP License
#S-0020700-7A-A-N & #S-020700-WD-N-A. A check in the amount of \$823 is
also enclosed to cover the application and processing fees.

If you should have any questions regarding the enclosed, please feel free to
contact me at 394-4371.

Sincerely,

JUNIPER RIDGE LANDFILL



Tom Gilbert
Environmental Compliance Manager

Encls.

CC: Cyndi Darling, MDEP
City Manager, City of Old Town
George MacDonald, State Planning Office
Toni King, Casella Waste Systems
Marty Drew, PTL
Don Meagher, PTL
Wayne Boyd, PTL

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Solid Waste Program
17 State House Station
Augusta, Maine 04333-0017
Telephone: (207) 287-2651

FOR DEP USE ONLY			
ATS ID: <u>60921</u>	Seq: <u>W</u>	DEP ID: <u>020700</u>	Received by DEP: <u>10/4/2006</u>
Bureau: <u>S</u>	Type of Application: <u>WD</u>	Activity: <u>M</u>	Fees Paid: <u>\$ 823 —</u>
Project Analyst: <u>Cynthia Darling</u>			Check No.: <u>00688563</u>

APPLICATION FOR A SOLID WASTE PROJECT MINOR REVISION

This form shall be used to request approval, pursuant to 38 MRSA, Section 1301 et seq., and Maine's Solid Waste Management Regulations, of minor changes to: (a) project design or operation; or (b) the conditions of a permit as previously approved by the Board or Department of Environmental Protection. Please contact DEP Solid Waste staff to determine if your project is a minor revision or amendment.

PLEASE TYPE OR PRINT

Company Name: NEWSME Landfill Operations LLC Telephone: (207) 394-4371

Applicant Name: Juniper Ridge Landfill

Contact Person: Thomas Gilbert Telephone: (207) 394-4371

Address Information

Applicant Name: (State of Maine) Acting through the (State Planning Office)

Telephone: (207) 287-5759

Mailing Address: 38 State House Station

Street Address: 184 State Street **Town:** Augusta **State:** Maine **Zip:** 04333-0038

Agent/Consultant Name: NEWSME Landfill Operations LLC

Telephone: (207) 394-4371

Mailing Address: 2828 Bennoch Road

Street Address: 2828 Bennoch Road **Town:** Alton **State:** Maine **Zip:** 04468

Address: Billing

Name: State of Maine, Acting Through the State Planning Office

Mailing Address: 38 State House Station

Street Address: 184 State Street **Town:** Augusta **State:** Maine **Zip:** 04333-0038

Site/Activity Information

Project Description: Minor revision to previously approved permit #S-020700-7A-A-N

& Amended Permit #S-020700-WD-N-A

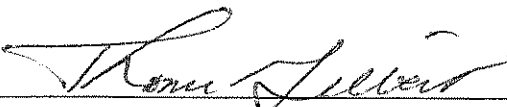
Location: Juniper Ridge Landfill Directions: I-95N, Exit 199, turn left onto Bennoch Rd, then left onto access road.

SIGNATURE OF APPLICANT

By signing this application, the applicant certifies that he or she has: (1) filed a complete copy of this application in the municipal office of the municipality in which the project is located, (2) reviewed the instructions contained in this application form, and (3) reviewed the appropriate state laws that relate to the proposed project.

I certify under penalty of law that I have personally examined the information submitted in this document and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the information is true, accurate, and complete. I authorize the Department to enter the property that is the subject of this application, at reasonable hours, including buildings, structures or conveyances on the property, to determine the accuracy of any information provided herein. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

DATE: 10/3/06

NAME: 
(Thomas Gilbert)

TITLE: Environmental Manager – Juniper Ridge Landfill

INSTRUCTIONS

1. **Please refer to the relevant requirements of the Solid Waste Management Regulations when preparing this application.** If you have any questions that arise at any point during the application process, please contact the DEP Solid Waste Program staff.
2. Pre-Application meeting. Applicants proposing a minor revision to a license are encouraged to contact the DEP staff to decide whether a pre-application meeting would be useful in preparing your proposal for a change in the licensed project. The meeting can help avoid unnecessary expense and processing delays.
3. Fill out the application completely. INCOMPLETE APPLICATIONS WILL BE RETURNED, CAUSING UNNECESSARY DELAYS IN THE REVIEW PROCESS. All work to support the investigation, design, and construction of a solid waste facility must be undertaken by individuals whose training, experience and professional certification is appropriate to accomplish the specific tasks with accuracy and technical proficiency. Reports, plans or other materials submitted in support of the application must bear the signature and, if appropriate, the seal of the individual who drafted or supervised the drafting of each document.
4. Send the application along with all attachments and a check for the fee made payable to "Treasurer, State of Maine" to: Maine Department of Environmental Protection, Bureau of Hazardous Materials & Solid Waste Control, 17 State House Station, Augusta, Maine 04333-0017. Please consult with DEP staff to determine how many copies of the completed application form and supporting reports must be submitted to the Department. In general, three copies of site plans, drawings, soil maps, or other data on sheets larger than 8½" x 14" copies must be submitted unless the staff determines that fewer copies are needed. ALL PLANS SHOULD BE FOLDED TO SIZE 8½" x 11" unless otherwise indicated by DEP staff. Any part of the application which has been prepared by a P.E., C.G. or C.S.S. must be stamped and signed by that person. If the applicant is a corporation, a certificate of good-standing from the Secretary of State must be included.
5. Send one complete copy of the application and any amendments that are subsequently submitted to the Municipal Office of the town within which the project is located. If the project is located in an unorganized area, send the application to the appropriate Office of the County Commissioners and the Maine Land Use Regulation Commission, 22 State House Station, Augusta, Maine 04333-0022. The application must be filed in the municipal office or at the County Commissioners Office and LURC at the time of filing with the DEP.
6. Keep a copy of the completed application for your files. This copy will be helpful in speeding up communications with the DEP staff if any questions arise during the review of the project.
7. Upon the approval by the Department of Environmental Protection, a permit will be issued and sent to the applicant. The applicant should read the permit carefully in order to become familiar with any conditions. Failure to comply with conditions of approval may lead to enforcement action or the revocation of a permit.

MINOR REVISION APPLICATION - REQUIRED INFORMATION

1. **Existing DEP permit number:** #S-020700-7A-A-N & #S-020700-WD-N-A
2. **DEP Project Analyst for original application (if known):** Cynthia W. Darling
3. **Description of Proposed Change:** To increase the 310,000 ton limitation placed upon Juniper Ridge Landfill (JRL) and Maine Energy relating to Maine generated MSW bypass acceptance.

History of limitation:

On April 9, 2004 the Maine State Planning Office was issued a license amendment (S-020700-WD-N-A) for West Old Town Landfill (now referred to as Juniper Ridge Landfill). MSW Bypass limitations were incorporated into this license, with Pine Tree Landfill's MSW limitations being referenced in Condition 16 (C), which reads as follows:

"With regards to the acceptance of MSW for disposal, consistent with its proposal, the applicant shall limit the total amount of (a) unprocessed MSW incinerated at Maine Energy and (b) MSW bypassed from Maine Energy for disposal at the WOTL and at Pine Tree Landfill's Secure III Landfill Expansion to no more than 310,000 tons in any calendar year, unless changes in conditions or circumstances occur that cause the Department to revise this cap".

Pine Tree Landfill's (PTL) Secure III Expansion License (#S-01987-WD-GZ-M) was originally issued by the MDEP on October 20, 1998. A Minor Revision to this license (#S-01987-WD-QA-M) was later issued on August 21, 2002 allowing PTL to accept MSW Bypass from Maine incinerators under limited conditions.

In summary, condition #3 in license #S-01987-WD-QA-M reads as follows:

"The total amount of unprocessed MSW accepted by Maine Energy plus the unprocessed MSW bypassed to PTL by Maine Energy shall not exceed 310,000 tons per year. The annual amount of RDF incinerated at Maine Energy shall not be less than 70% of the total annual amount of MSW processed by Maine Energy".

It should be noted that in Section 2. (A) of the same license, it was stated that the maximum operating capacity of Maine Energy at that time was 334,342 tons per year.

Current effect of limitations:

Since the issuance of PTL's License #S-01987-WD-QA-M followed by JRL's License #S-020700-WD-N-A, Maine Energy has progressively improved its waste handling capacity through several equipment upgrades at their facility. During calendar year 2005, the 310,000 ton cap was nearly reached with Maine Energy recording 309,012 tons, of which 291,200 tons was processed and combusted at the facility. As of June 30, 2006, the facility was projected to approach 310,000 tons of MSW processed and combusted at the facility, exclusive of any bypass, which could have resulted in an exceedence of the 310,000 limitation. Given this projection, Maine Energy has already taken steps to curtail inbound waste volumes to ensure compliance with the current permit restriction. Such curtailment has the potential to adversely affect power production.

Proposed revision:

JRL proposes to increase the current 310,000 tons per year limitation to 325,000 tons annually in order to lessen the impact on Maine Energy's operations. The new limitation, which represents only a 4.8% increase in the limit, more accurately reflects the improved production capabilities of the facility and the seasonal mismatch between delivered tons and production requirements. It is this seasonal variation, combined with scheduled and unscheduled maintenance, which necessitates bypass events. The Application attachment, "Maine Energy Recovery Company Tonnage Analysis 2003 - 2006", illustrates that the facility has successfully increased its production and combustion capability while at the same time achieving a significant *decrease* in bypassed tonnage. These improvements have been achieved while maintaining the Yield (MSW processed v. RDF combusted) well above the permit requirement of 70%. At least part of the rationale behind the original 310,000 ton limitation was to prevent a situation whereby Maine Energy would intentionally oversubscribe its inbound waste stream to facilitate a constant bypass. The data shows that this has not occurred and that Maine Energy is, in fact, striving to minimize bypass and maximize production and combustion at the facility.

Maine Energy's improved performance is the result of several changes that have been made at the plant, which we believe to be sustainable over the long-term. At the time the 310,000 ton limit was imposed in 2002, Maine Energy was processing approximately 280,000 tons per year, which represented 90% of the 310,000 ton limit and 84% of the maximum operating capacity of 334,342 tons. Much of Maine Energy's operating shortfall at that time was due to premature superheater failures and load reductions required to maintain compliance with air emission limits. Over time, Maine Energy has improved its combustion to the point that load reductions are now rarely required to maintain compliance with air emission limits and it has changed its superheater design and its strategy regarding superheater maintenance.

In 2002, Maine Energy experienced significant reductions in superheater life for the first time. This is a problem that is common in the waste to energy industry; the super heaters were being left in the boilers for too long and unscheduled outages for superheater tube leaks were common. In order to avoid the unscheduled outages, Maine Energy began a 1 year replacement interval for its superheaters. This has significantly improved reliability. In addition, Maine Energy has changed the design of the superheater, insofar as tube metal thickness, so that there is more metal in the high wear areas. As a result of this change, it is expected that the most recent superheaters will last 18 months with no decrease in reliability. Superheater design is an ongoing project involving continuous research into additives and alternative designs that will reduce super heater life cycle costs with no loss in availability.

Combustion improvements were achieved through better air management. Air infiltration was considerably reduced as were obstructions in the flue gas path which increased pressure drop downstream of the boilers. The principal obstructions were in the tubular air heater and the baghouse. The tubular air heater pressure drop was addressed by the addition of a sootblower and the baghouse pressure drop was addressed by more frequent bag replacements.

Taken together, these improvements have significantly improved boiler efficiency and availability, which in turn is allowing Maine Energy to process and combust more MSW while bypassing fewer tons.

5. List supporting attachments:

- Application Fee of \$823.00
- Maine Energy Recovery Company Tonnage Analysis 2003 – 2006

Maine Energy Historical Tonnage Analysis 2003 - 2006

	Total Inbound/Processed	Change in Annual Processed Tons	Total Bypass	Change in Bypass Tons	Total against Permit (310,000)	Percent Yield (Combusted v. Processed) Minimum 70% by Permit
2003	277,873		25,922		303,795	74.25%
2004	272,564	(5,309)	29,012	3,090	301,576	71.35%
2005	291,194	18,630	17,818	(11,194)	309,012	72.00%
Projected 2006 as of 6/30/06	314,583	23,389	19,357	1,539	333,940	74.00%

20

SUMMARY SHEET

DEP# S-020700-WD- W-M Project Manager: DARLING, CYNTHIA ATS ID: 60921
 Applicant Name: STATE PLANNING OFFICE, STATE OF MAINE Tel: (207) 287-5759
 Mailing Address: 184 STATE STREET, 38 STATE HOUSE STATION, AUGUSTA, ME 04333-0038
 Agent Name: GILBERT, THOMAS Tel: (207) 394-4371
 Mailing Address: NEWSME LANDFILL OPERATIONS LLC, 2828 BENNOCH RD, ALTON, ME 04468
 Project Description/License Type: MR TO INCREASE THE 310,000 TON LIMITATION PLACED UPON JUNIPER RIDGE LANDFILL & MAINE ENERGY RELATING TO MAINE GENERATED MSW BYPASS ACCEPTANCE
 Project Address (street, county & town):JUNIPER RIDGE LANDFILL,EXIT 199,TURN LEFT ONTO BENNOCH RD,THEN LEFT ONTO ACCESS RD, OLD TOWN

SOC: After-The-Fact: Appeal/Reconsideration: Other:

Processing Fee Paid: Annual Fee Paid:

Received Date: 10/4/2006 Acceptance Deadline: 10/25/2006 Accepted Date:

Returned Date: Withdrawn Date: Board Jurisdiction: YES NO

Decision Deadline: Statutory/Goal (circle or bold one) Extension Date:

Review Agents:

Sent for Review	Comments Received	Sent for Review	Comments Received	Sent for Review	Comments Received	Sent for Review	Comments Received

Draft Order to App/Interested Parties Date:

Date Order Submitted to Supervisor:

Supervisor: Returned for redraft: OK date:

Comments:

Division Director: Returned for redraft: OK date:

Comments:

Project Manager: Returned for redraft: OK date:

Comments:

Clerical Finalizer: OK date:

Head Clerical: Returned for redraft: OK date:

Comments:

Bureau Director: Returned for redraft: OK date:

Comments:

Head Clerical: OK date:

BEP Secretary: Returned for redraft: OK date:

Comments:

ATS Coordinator: OK date:

Overdue (circle or bold one) YES NO

Copy of order to: APPLICAN TOWN AGENT PROJ. MGR. R.O. ORDER FILE REG. OF DEEDS
 (circle or bold) T

Interested Party(ies) - please list name(s) & address(es) below

Document Name: OK to Archive:

Environmental Issues/Comment:

Add Info Requested Date: Add Info Due Date: Add Info Received Date:

Add Info Requested Date: Add Info Due Date: Add Info Received Date:

Inspection/Site Visit Date: Pub Info Meeting Date: DEP Hear/Meet Date:

[] Yes adverse comments submitted [] No adverse comments submitted

CASELLA WASTE SYSTEMS, INC
P.O. BOX 866
RUTLAND, VERMONT 05702

Treasurer, State of Maine
Maine Department of Environmental
Bureau of Air Quality
17 State House Station
Augusta ME 04333-0017

SECURITY WARNING: THE FACE OF THIS DOCUMENT FEATURES A COLORED BACKGROUND AND MICROPRINT BORDERS. THE REVERSE SIDE FEATURES ARTIFICIAL WATERMARKS.

casella
waste systems, inc.

CASELLA WASTE SYSTEMS, INC.
P.O. BOX 866
RUTLAND, VERMONT 05702

52-153
112

00688563

CHECK NUMBER

PAY TO THE ORDER OF **823.00**
EIGHT HUNDRED TWENTY-THREE DOLLARS AND ZERO CENTS

CHECK DATE
09/26/06

CHECK AMOUNT
*\$823.00

■ EIGHT HUNDRED TWENTY-THREE DOLLARS AND ZERO CENTS *****

TO THE
ORDER OF

Treasurer, State of Maine

FLEET
Fleet Maine, N.A.
South Portland, ME

Void Over \$823.00

[Signature]
AUTHORIZED SIGNATURE

⑈00688563⑈ ⑆011201539⑆ 80 019 704⑈

ME PF/ SW W
014.06A.1755.14.1442

CASELLA WASTE SYSTEMS, INC. PO BOX 866 RUTLAND, VT 05702
CHECK NO. 00688563 VENDOR NO. 13646 CHECK DATE 09/26/06 Stub 1 of 1
***West Old Town Landfi
(207) 862-4200
091906 CR 091906 JRL-APPLICATION REVISION
823.00 823.00
823.00 823.00

Date received 10-4-06
Check # 00688563
Check Amt 823.00

PINE TREE LANDFILL

February 1, 2007

Cynthia W. Darling
Maine Department of Environmental Protection
Bureau of Remediation & Waste Management
106 Hogan Road
Bangor, ME 04401

Re: Minor Revision Application to Permit #S-01987-WD-GZ-M and #S-01987-WD-QA-M
Minor Revision Application to Permit #S-020700-7A-A-N and #S-020700-WD-N-A

Dear Cyndi:

On October 3, 2006, New England Waste Services of ME, Inc. and NEWSME Landfill Operations LLC filed the above captioned minor revision applications. The subject of these applications is the 310,000 ton operating restriction placed on Maine Energy Recovery Company. It has come to our attention that there may be some confusion regarding our intent in filing these applications; therefore we offer this letter as clarification.

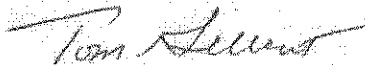
Due to the operating improvements we described in our applications, Maine Energy's processing and combustion capacity is now closer to its original design capacity. Therefore Maine Energy can generate more electricity than was the case when the 310,000 restriction was first established in 2002 as part of a Pine Tree Landfill minor revision application. For the past two years, Maine Energy's total tonnage (processed and bypassed) has exceeded 308,000 tons while at the same time the bypass component has been significantly reduced from the two years prior. In order to fully utilize Maine Energy's improved production capabilities, we believe increasing in the total tonnage restriction from 310,000 tons to 325,000 tons is warranted. Indeed, the restriction in the Juniper Ridge and Pine Tree Landfill applications provides for a modification based on changing circumstances.

It is not Maine Energy's intent to use these Minor Revisions to accept and process 325,000 tons of MSW at its Biddeford facility. Under the current restrictions in the landfill permits, Maine Energy is allowed to receive and process 310,000 tons at its facility if it bypasses nothing to either Pine Tree Landfill or Juniper Ridge Landfill. We are requesting that the total tonnage figure be increased to 325,000 tons, while at the same time maintaining the current 310,000 ton restriction on what Maine Energy itself can receive and process. This would simply provide an additional 15,000 tons that would be used strictly for bypass purposes on an "as needed" basis. As was explained in 2002 when this limitation was established, some bypass capability is necessary in addition to what Maine Energy receives and processes in order to continue to serve customers during planned and unplanned outages and to accommodate seasonal fluctuations in waste generation.

Cynthia W. Darling
February 1, 2007
Page-2

I hope this letter provides clarification and look forward to discussing it at your convenience.

Sincerely,
PINE TREE & JUNIPER RIDGE LANDFILLS



Tom Gilbert
Environmental Compliance Manager

cc: Brian Oliver, Casella Waste Systems
Toni King, Casella Waste Systems
Ken Robbins, MERC
Scott Hagemeyer, MERC
Marty Drew, PTL & JRL
Don Meagher, PTL & JRL

JRL-310,000 MR

12-1-09

- met w/ Scott Hagemeyer about the MR request to inc. the 310,000 bypass msid limit
- told him it seemed to be manageable
- I brought up staff's recom. a bypass be used as the soft layer; we talked of the concerns me has abt. if me has maint it could schedule for when a cell at JRL is finished the concerns me would have w/ risking hitting the 310,000 limit before the end of the yr. + me can't sched. maint for it's busiest time ~~efficiency~~ + can't call for a bypass just 'cause soft layer is needed at JRL

talked w/ Aid; Eng. still believe msid is best soft layer matl

- talked w/ Scott + Tom G. abt. modifying the MR applic. to ask for soft layer matl to be separate from 310,000; the amt. would be equiv. to calc. of how much matl is needed
- Scott can't guarantee me could supply it.

soft layer at the time it's needed, but would be willing to try

- Tom G. will submit letter modifying the MR applic.

QED



Operated By NEWSME Landfill Operations, LLC

December 10, 2009

Cynthia Darling
Maine Dept. of Environmental Protection
Bureau of Remediation & Waste Management
106 Hogan Road
Bangor, Maine 04401

RE: Amendment to Application for Solid Waste Project-Minor Revision
Juniper Ridge Landfill
Bypass MSW for Soft Layer

Dear Cyndi:

With this letter, Juniper Ridge Landfill is requesting an amendment to the previously submitted application pertaining to the acceptance of MSW bypass. Basically, we are now requesting an exemption to the 310,000 ton limitation placed upon Juniper Ridge Landfill and Maine Energy as it relates to MSW bypass acceptance in order to allow for soft layer placement in newly constructed landfill cells.

If you should have any questions pertaining to this matter, please feel free to contact me at 207-862-4200, ext.245.

Sincerely,

Tom Gilbert
Environmental Compliance Manager
NEWSME Landfill Operations, LLC

Cc: Wayne Boyd, NEWSME, Inc.
Don Meagher, Casella Waste Systems, Inc.
Toni King, Casella Waste Systems, Inc.

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Solid Waste Program
17 State House Station
Augusta, Maine 04333-0017
Telephone: (207) 287-2651

FOR DEP USE ONLY

ATS ID: _____	Seq: _____	DEP ID: _____	Received by DEP: _____
Bureau: <u>S</u>	Type of Application: _____	Activity: <u>M</u>	Fees Paid: _____
Project Analyst: _____	Check No.: _____		

APPLICATION FOR A SOLID WASTE PROJECT MINOR REVISION

This form shall be used to request approval, pursuant to 38 MRSA, Section 1301 et seq., and Maine's Solid Waste Management Regulations, of minor changes to: (a) project design or operation; or (b) the conditions of a permit as previously approved by the Board or Department of Environmental Protection. Please contact DEP Solid Waste staff to determine if your project is a minor revision or amendment.

PLEASE TYPE OR PRINT

Company Name: **State of Maine, Acting through the Maine State Planning Office
Juniper Ridge Landfill** Telephone: **207-287-5759**

Contact Person: **George MacDonald** Telephone: **207-287-5759**

Address Information

Applicant Name: **NEWSME Landfill Operations, LLC (agent for the SPO)**
Telephone: **207-862-4200**
Contact Person: **Tom Gilbert** Telephone: **207-862-4200, ext.245**

Mailing Address: **358 Emerson Mill Road
Hampden, Maine 04444**

Street Address: **Same**

Address: **Billing**

Name: **NEWSME Landfill Operations, LLC**
Mailing Address: **110 Main St., Suite 1308
Saco, Maine 04072**

Street Address: **110 Main St., Suite 1308
Saco, Maine 04072**
Site/Activity Information

Project Description: **Minor revision to previously approved permit #S-020700-7A-A-N
& Amended Permit #S-020700-WD-N-A**

Location: **Juniper Ridge Landfill** Directions: **I-95N, Exit 199, turn left onto Route 16 (Bennoch Rd), then left onto access road.**

Location: **Juniper Ridge Landfill** Directions: **I-95N, Exit 199, turn left onto Route 16 (Bennoch Rd), then left onto access road.**

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I certify under penalty of law that I have personally examined the information submitted in this document and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the information is true, accurate, and complete. I authorize the Department to enter the property that is the subject of this application, at reasonable hours, including buildings, structures or conveyances on the property, to determine the accuracy of any information provided herein. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

DATE: 12/9/09



(Brian Oliver)

TITLE: Regional Vice President-NEWSME Landfill Operations LLC

INSTRUCTIONS

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MINOR REVISION APPLICATION - REQUIRED INFORMATION

1. **Existing DEP permit number:** #S-020700-7A-A-N & #S-020700-WD-N-A
2. **DEP Project Analyst for original application (if known):** Cynthia W. Darling
3. **Description of Proposed Changes:** On October 3, 2006, the Maine State Planning Office (on behalf of Juniper Ridge Landfill) submitted a Minor Revision Application to increase Maine Energy's 310,000 MSW bypass limitation to 325,000 tons annually (see enclosed copy). While that application has not been formally acted upon by the MDEP, the State Planning Office (SPO) is now proposing an amendment to that proposal. The following amends and replaces the original application:

As part of this amended proposal, the SPO is requesting an annual exemption of the 310,000 ton limitation in order to acquire sufficient quantities of MSW bypass to be utilized as soft layer material in newly constructed landfill cells. While both Pine Tree and Juniper Ridge Landfills have historically utilized other types of materials (such as FEPR, ash, contaminated soils, bark, etc.) for the required soft layer, experience has proven that those materials eventually (through compaction & decomposition) impede leachate flow to drainage systems within the landfill. Investigations undertaken with the cooperation of MDEP staff have resulted in the recommendation of utilizing MSW for the required soft layer in newly constructed landfill cells rather than traditional materials.

As part of this proposal, Maine Energy would work cooperatively with Juniper Ridge Landfill to schedule, to the extent possible, maintenance and/or outages at their facility to take place in conjunction with the landfill's soft layer placement timelines. The engineering plans supplied to the MDEP prior to the construction of each landfill cell would include an estimate of the cubic yards of MSW required to fulfill the soft layer requirements. The MDEP would review and approve the estimated MSW quantities as part of the issuance of the cell construction permit. The total quantity of MSW required for soft layer placement in each cell would be in addition to Maine Energy's current annual 310,000 ton limit.

4. **List supporting attachments:**
 - Application Fee (previously submitted).
 - Copy of application submitted on October 3, 2006.

END

230 West Old Town Road
Old Town, Maine 04468
December 18, 2009

To: Cindi Darling
Maine Department of Environmental Protection
Bureau of Remediation and Waste Management

From: Peter Dufour, Chairman
Juniper Ridge Landfill Advisory Committee



Re: Request for MERC additional MSW By- Pass

As you well know some of the Committee members will be out of the area over the next several weeks, therefore I have taken it upon myself to discuss this issue with a majority of the committee and we wish to state the following position on this issue.

- a) We believe that if D.E.P. considers MSW as an acceptable material to be used as a soft layer in cell construction, it is acceptable to us.
- b) As for the request to increase MSW By-Pass from MERC by 15,000 ton, we cannot support this request as it appears that MERC will seek out additional clients to compensate for this material which would likely be from out of State Sources, thus accelerating our fill rate at JRL.
- c) We strongly endorse the coordination of MERC scheduled maintenance shut down with the construction of any new cells. To us this would support our position of no additional MSW at JRL.
- d) If this method of MSW By-Pass soft material is approved we wish a clarification on the compensation/classification of this material.

We strongly urge that this request for additional tonnage be denied.

CC: Committee Members
George MacDonald, State Planning Office
Martha Freeman, Director State Planning Office
City of Old Town
Town of Alton
Penobscot Nation

Darling, Cyndi W

From: Darling, Cyndi W
Sent: Monday, December 21, 2009 2:59 PM
To: 'HLSanborn@aol.com'
Subject: RE: Regarding Minor revision or Amendment

Laura,

I'm sorry it has taken so long for me to answer this; I was out with the flu all last week.

The submittal you're referring to is not a new application. It is a request to modify a minor revision application (#S-020700—WD-W-M) that was submitted in October 2006 and has been pending ever since. The 2006 application sought approval to increase the limit in the amendment application (#S-020700-WD-N-A) on the total amount of unprocessed MSW incinerated at Maine Energy and MSW bypassed from Maine Energy to PTL or Juniper Ridge Landfill from the 310,000 tons/year limit in the amendment license (see Finding of Fact #13.A and condition #16) to 325,000 tons/year. I don't know why the request was made on an application form; I expected it to be a letter modifying the 2006 application by removing the request to go from 310,000 tons/year total to 325,000 tons/year, and adding a request to allow JRL to accept, above the 310,000 limit, up to the amount of MSW calculated to be needed for the "soft layer" the Department requires as the first layer placed in each new cell of the landfill.

This request is being made at Department staff's suggestion. The Department requires a layer of "soft" waste be placed in a new cell to protect the leachate collection and liner systems. Landfill owners/operators have used various wastes as the soft layer, and we have found that only MSW works well. The other wastes tend to solidify, bind, decompose, etc. and become too impervious over time, and eventually may impede leachate from making it into the leachate collection system. If an area begins to show signs of problems, the area has to be dug up (causing odor and gas issues), the "soft" layer replaced, and the waste replaced. The staff engineers strongly support the use of MSW as the soft layer.

The intent of the request is for the design submission for a new cell to include a calculation of the amount of material needed for the soft layer (about 5 feet deep, over the entire cell bottom). The order approving the cell design would address the placement of the soft layer; if possible, it would be all MSW from Maine Energy or other incinerators (with the same restrictions ensuring that the MSW comes only from Maine). The incinerators cannot just bypass waste; they can only bypass when there's a legitimate issue at the incinerator, so it's possible the landfill could still not obtain enough MSW in the short time period the Department allows for placement of the protective layer on the new cell. The hope is the landfill and the incinerator(s) could coordinate scheduled maintenance so bypass was available when material for the soft layer was needed.

I hope this explains the purpose of the request. It's my understanding several people at SPO are filling in for George; I assume one of them has the request. Again, it's not a new application; it's a modification to a long-pending application. I do not have an electronic copy of the application.

Please contact me if you have additional questions or comments.

Cyndi Darling
Maine Dept. of Environmental Protection
Bureau of Remediation & Waste Management
Division of Solid Waste Management
Eastern Maine Regional Office
207-941-4580
cyndi.w.darling@maine.gov

From: HLSanborn@aol.com [mailto:HLSanborn@aol.com]
Sent: Wednesday, December 16, 2009 11:43 AM
To: Darling, Cyndi W
Cc: Clark, Paula M; Littell, David P
Subject: Regarding Minor revision or Amendment

Cyndi

Regarding Permit #S-020700-7A-A-N and Amended Permit #020700-WD-N-A
Project Description. Dated Dec 10, 2010
Has the department determined if this a Minor revision or an Amendment.

Do you have a electronic copy that you could email me.

In conversation yesterday with Jody Harris, at SPO, she indicated that she (who is filling in for George MacDonald) knew nothing of the SPO filing for the minor revision or amendment. She ask that I email her a copy.???

I look forward to your reply

Happy Holidays

Laura Sanborn
2845 Bennoch Road
Alton, Maine 04468
207-393-4401
207-745-8151 cell